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A distance measuring device, in particular a laser distance measuring device, comprising at least one oscillator (26) which produces a basic signal at a fundamental frequency (f₀) and a first circuit device (30) which produces a first signal at a first frequency (f₁) which is higher than that of the fundamental frequency (f₀), whereby the first circuit device (30) comprises at least one PLL circuit (32) and a VCO circuit (34).

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The distance measuring device as recited in Claim 1,
wherein the first circuit device (30) includes an LC filter (35) located
downstream from the VCO circuit (34).

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The distance measuring device as recited in Claim 1 or 2, characterized by a frequency divider (36) which is integrated in the PLL circuit (32).

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19 4. The distance measuring device as recited in one of the preceding claims, 20 characterized by a phase-shifting element (40) which produces a second 21 signal out of the basic signal at a second frequency which differs from the 22 fundamental frequency (f₀) by transferring an input signal between 23 discrete phase positions, whereby a second circuit device (30') is located 24 downstream from a PLL circuit (32') and a VCO circuit (34') which 25 produces a third signal at a third frequency (f'1) which is higher than the 26 second frequency.

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5. The distance measuring device as recited in one of the preceding claims, wherein the circuit device (30, 30') is provided which multiplies its input frequency by a non-linear multiple.

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